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A	PPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
′	10/081,249	02	/22/2002	Kuo-Hwa Yu	PAT-1399	6372
	7:	590	02/27/2004		EXAMINER	
	Raymond Sun				PARK, ILWOO	
	12420 Woodhall Way Tustin, CA 92782				ART UNIT	PAPER NUMBER
	,				2182	6
					DATE MAILED: 02/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner		Application No.	Applicant(s)					
Blwoo Park   2182	Office Action Summers		YU, KUO-HWA					
The MAILING DATE of this communication appears on the cover sheet with th  correspondence address = Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estensions of them may be available under the provision of 37 CFR 1.13(a). In so event, however, may a reply be timely filled after 5X (8) MONTHS from the mailing date of this communication of 37 CFR 1.13(a). In so event, however, may a reply be timely filled after 5X (8) MONTHS from the mailing date of this communication of the provision of the prov	Office Action Summary	Examiner	Art Unit					
Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Education of time may be available under the provisions of 37 CFR 1.136(s). In no avent, however, may a reply be timely filled after St (6) (MONTH'S from the mailing date of this communication.  If NO period for reply is specified above, the maximum studenty period will apply and will expire SIX (6) MONTH'S from the mailing date of this communication.  Failurs to reply within the set or excended period for reply will, by statutory minimum of thinty (70) (days will be considered timely.  If NO period for reply is specified above, the maximum studenty period will apply and will expire SIX (6) MONTH'S from the mailing date of this communication, even if timely filled, may reduce any certain period to communication become AbanDONED (05 U.S. 5; 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any certain from diplamint. See 37 CFR 1.04(b).  This action is FINAL.  2b] This action is provided the provided period for reply will, by statutor, cause the application, even if timely filled, may reduce any certain from the provided period of the second period of the second period of the second period of the second period of the provided period of the second period								
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1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)								
Paper No(s)/Mail Date 6) Other:								

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### **DETAILED ACTION**

1. Claims 3 and 5 amended, claims 7-16 are canceled, and claim 17 is added.

Jolley et al, Collins, and Chang et al were cited in the last office action. The following rejections apply. Claims 1-6 and 17 are presented for examination.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jolley et al., US patent No. 5,832,244.

As to claim 1, Jolley et al teach a peripheral or memory device having a bus, and a bus switching circuit that comprises:

a first bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a first format;

a second bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a second format;

- a first bus snoop circuit [col. 6, lines 34-37] coupled to the bus;
- a second bus snoop circuit [col. 6, lines 34-37] coupled to the bus;
- a switch coupled to the first bus snoop circuit for receiving a first bus detect signal [col. 10, lines 60-63] therefrom, and the switch coupled to the second bus snoop circuit for receiving a second bus detect signal [col. 10, lines 63-66] therefrom; and

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wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, depending on the nature of the first and second detect signals.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jolley et al., US patent No. 5,832,244 in view of Collins, US patent No. 5,671,355.

As to claims 3 and 5, Jolley et al teach a peripheral or memory device comprising:

a bus [host bus 18, 24]; and

a bus switching circuit that comprises:

a first bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a first format;

a second bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a second format;

a switch for receiving a bus select signal [type of the host bus: col. 10, lines 60-66]; and

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wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, depending on the nature of the bus select signal.

However, Jolley et al teach do not disclose a micro-controller which generates a bus select signal selected by the micro-controller without receiving bus data from the bus.

Collins teaches a peripheral or memory device, for interfacing a plurality of different types of host bus, having a micro-controller [col. 8, lines 19-31] which generates a bus select signal selected by the micro-controller without receiving bus data from the bus. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Jolley et al and Collins because they both teach interfacing a plurality of different types of host bus and Collins' teaching of a micro-controller which generates a bus select signal selected by the micro-controller without receiving bus data from the bus would increase user friendliness in selecting a bus type by a user manually [Collins: col. 8, lines 19-31] and/or further increase reliability by eliminating uncertainty of detecting of a bus type using signal levels of selected bus pins [Jolley et al: col. 11, lines 8-12].

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jolley et al., US patent No. 5,832,244 in view of Chen, US patent No. 5,596,562.

As to claim 5, Jolley et al teach a peripheral or memory device comprising:

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a bus [host bus 18, 24];

a bus switching circuit that comprises:

a first bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a first format;

a second bus decoder circuit coupled to the bus for decoding [col. 5, lines 1-13] signals in a second format;

a switch for receiving a bus select signal [type of the host bus: col. 10, lines 60-66]; and

wherein the switch is coupled to the first bus decoder circuit for providing a first bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, and the switch is coupled to the second bus decoder circuit for providing a second bus enable signal [col. 7, lines 17-23; col. 11, lines 1-3] thereto, depending on the nature of the bus select signal.

However, Jolley et al teach do not disclose the switch is coupled to a single pin for receiving the bus select signal.

Chen teaches a bus switching circuit having a switch [multiplexer 60] coupled to a single pin [col. 3, lines 57-61] for receiving a bus select signal therefrom, couple to a first bus decoder circuit [PCMCIA controller 40], coupled to a second bus decoder circuit [ATA controller 50].

Therefore, Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Jolley et al and Chen because they both teach a switch receiving a bus select signal used to select one

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of two bus decoder circuits and the Chen's teaching of a switch coupled to a single pin for receiving a bus select signal therefrom indicating a selection of either one of two bus decoder circuits would increase reliability by eliminating uncertainty of detecting of a bus type using signal levels of selected bus pins [Jolley et al: col. 11, lines 8-12].

7. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jolley et al., US patent No. 5,832,244 in view of Chang et al., US patent No. 6,286,097.

As to claim 2, Chang et al teach a bus can be either [col. 2, lines 10-14; figs. 1-2] an ISA bus or an LPC bus and an ISA bus decoder circuit and an LPC bus decoder circuit.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include an ISA bus decoder circuit and an LPC bus decoder circuit into the plurality of Jolley et al's bus decoder circuits in order to increase adaptability for a bus connection [Chang et al: col. 2, lines 10-14].

8. Claims 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jolley et al and Chen as applied to claims 3 and 5 above, and further in view of Chang et al., US patent No. 6,286,097.

As to claims 4 and 6, Chang et al teach a bus can be either [col. 2, lines 10-14; figs. 1-2] an ISA bus or an LPC bus and an ISA bus decoder circuit and an LPC bus decoder circuit.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include an ISA bus decoder circuit and an LPC bus

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decoder circuit into the plurality of Jolley et al and Collins' bus decoder circuits in order to increase adaptability for a bus connection [Chang et al: col. 2, lines 10-14].

9. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jolley et al., US patent No. 5,832,244 in view of Collins, US patent No. 5,671,355.

As to claim 17, Jolley et al do not disclose generating the bus detect signals based on a series of I/O writes.

Collins teach generating bus detect signals based on a series of I/O writes [signature signals of the bus: col. 7, lines 40-47]. Therefore, it would have been obvious to one of ordinary skill in the art of bus type identification at the time the invention was made to include generating bus detect signals based on a series of I/O writes in order to increase reliability by eliminating uncertainty of detecting of a bus type using signal levels of selected bus pins [Jolley et al: col. 11, lines 8-12].

#### Response to Arguments

- 10. Applicant's arguments with respect to claims 3-6 have been considered but are moot in view of the new ground(s) of rejection.
- 11. Applicant's arguments with respect to claims 1-2 filed 12/29/2003 have been fully considered but they are not persuasive. The examiner respectfully disagrees the applicant allegation of a) Jolley only discloses one detection circuit not two separate snoop circuits.

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For the point a), "circuit<sup>1</sup>" defined as 'any path that can carry electrical current',

Jolly disclose each a plurality of bus snoop circuits coupled to the bus as claimed by

applicant and each of the plurality of bus snoop circuits generating and outputting each

bus detect signal [e.g., signal lines 32, 34, 36 or signal lines 92, 94] as claimed.

#### Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ilwoo Park whose telephone number is (703) 308-7811. The examiner can normally be reached on Monday through Friday from 9:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

<sup>&</sup>lt;sup>1</sup> according to Microsoft Computer Dictionary Fifth Edition

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supervisor, Jeffrey A Gaffin can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Hand-delivered responses should be brought to US Patent and Trademark

Office, 2011 South Clark Place, Customer Window, Crystal Plaza Two, Lobby, Room

1B03, Arlington, VA 22202.

Ilwoo Park

**Primary Examiner** 

February 24, 2004